

I/We Claim

1. An air conditioning garment for air conditioning an individual wearing said garment, the garment comprising:
 - 5 an inner layer of a three-dimensional netting structure enclosed between two layers of substantially air-impermeable fabric, wherein one of said two fabric layer, being the layer facing said individual body when said individual is wearing said garment, is having a plurality of openings directed toward predetermined locations on said individual's body,
 - 10 and wherein said garment is having an inlet opening with connection means for connecting the inner layer to a source of air at a predetermined temperature.
- 15 2. The air-conditioned garment of claim 1 wherein the thickness of the three dimensional net is in the range of 2 to 10 mm.
3. The air-conditioned garment of claim 1 wherein the density of the three dimensional net is in the range of 5 to 30 %v/v.
- 20 4. The air-conditioned garment of claim 1 wherein the cells formed by the three dimensional netting are in the range of 1 to 8 mm.
5. The air-conditioned garment of claim 1 wherein said three-dimensional netting is fabricated from a fiber or a filament selected from the group consisting of nylon fibers, cotton fibers and fiberglass.
- 25 6. The air-conditioned garment of claim 1 wherein said air source supplies air at a rate of 3 to 20 cfm.

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7. The air-conditioned garment of claim 1 wherein said air source is an air conditioning unit.
8. The air-conditioned garment of claim 1 wherein said air source is an air blower.
9. The air-conditioned garment of claim 1 wherein said garment is a vest or a part thereof.
10. The air-conditioned garment of claim 1 wherein said garment is a headwear or a part thereof.
11. The air conditioning garment of claim 1 wherein said individual is a racecar driver in a closed cockpit racecar or a pilot in a closed cockpit aircraft.
12. The air-conditioned garment of claim 1 wherein said garment is a detachable lining attached to the inner side of a second garment.
13. The air-conditioned garment of claim 12 wherein the second garment is a helmet.
14. The air-conditioned garment of claim 12 wherein the second garment is a shirt.
15. The air-conditioned garment of claim 1 wherein the substantially impermeable layer facing the wearer body is covered by a loosely woven or knitted fabric which does not prevent free passage of air streams.

16. The garment of claim 1 wherein the connection means for connecting the inner layer to a source of air is having automatic quick disconnecting means.
- 5 17. The air conditioning garment of claim 1 further comprising an outlet opening, said outlet opening is connected to the inlet opening of another air conditioning garment.
- 10 18. An air conditioning garment for air conditioning an individual wearing said garment comprising, in combination with any garment, an inner lining, said inner lining comprising:
a layer of three-dimensional mesh,
at least one layer of air-impermeable or semi-air-impermeable fabric laminated to said layer of three-dimensional mesh, said fabric layer is
15 facing said individual's body and having a plurality of openings directed to predetermined locations on said individual's body,
wherein said inner layer is connected to a source of air at a predetermined temperature.
- 20 19. The air conditioning garment of claim 18 wherein said lining is a detachable lining.
20. A method for air conditioning an individual person in need of air conditioning, said method comprising:
25 providing said person with a garment comprising an inner layer of a three dimensional mesh sandwiched between two layers of material impermeable or semi-impermeable to air wherein one of said two layers, being the layer facing said individual body is having a plurality of openings directed to predetermined locations on said individual's body,

connecting said inner layer of three-dimensional mesh to a source of
air at a predetermined temperature,
whereby streams of conditioned air are being directed to said
predetermined locations.

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21. An air conditioning garment for air conditioning an individual wearing
said garment as described hereinabove.

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